



Akiliu Tamirat Erkalo

Mid-Level Full Stack Developer

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Full-stack developer with 2+ years of experience building responsive web applications using modern JavaScript frameworks. Proven track record of optimizing performance, implementing new features, and improving user engagement. Adept at working in Agile environments and collaborating across teams.

Skills

TECHNICAL SKILLS

- Frontend: Next.js, React, TypeScript, JavaScript, TanstackStart, HTML5, CSS3, TailwindCSS, Shadcn
- Backend: Node.js, Express, FastAPI, Nest.js, Python, GraphQL, RestApi
- Databases: PostgreSQL, MongoDB, SQL, Prisma, Neon, Supabase, Vector Db,
- State Management: Zustand, Redux
- Tools: Git, AWS, Vercel, Docker, Jest, Webpack, Render, Jenkins, Argocd

PROFESSIONAL EXPERIENCE

Web Developer(Front-end Engineer)

Safaricom

Apr 8 - present

- **Optimized** Safaricom's Merchant Onboarding Portal, improving merchant management efficiency and enabling real-time follow-up with **100+ field agents nationwide**.
- **Engineered an E-commerce Management Dashboard** to automate inventory control, simplify product tracking, and eliminate manual processes, achieving a 99% boost in operational efficiency.
- **Developed** a Complaint Management Portal to track and resolve **M-Pesa customer complaints**, reducing resolution time by **30%**.

- **Enhanced** the M-Pesa Internal Support Portal, streamlining workflows for internal teams to manage all aspects of **M-Pesa operations** across departments.

Next.js Developer

May 2024 - Present

SRE

22, Addis Ababa

- **Optimized performance** of a Next.js application, resulting in **25% faster load times**, enhancing user experience across devices.
- **Built a full-featured University Management System** with a team, 95% automating manual processes and improving efficiency for students, faculty, and administrative staff.
- **Implemented Server-Side Rendering (SSR)** to improve SEO and initial page load performance across multiple projects.
- **Created a reusable component library** with React and TypeScript, increasing development speed by **30%** and improving code consistency across applications.
- **Integrated headless CMS (e.g., Sanity, Strapi)** into multiple projects, reducing manual content update times by **40%** for non-technical teams.

✓ Key Projects:

1. E-commerce Dashboard

- Developed the entire frontend using **Next.js, React, TypeScript, and Tailwind CSS**.
- Built interactive sales charts, order management pages, and admin controls.
- Integrated with APIs for product listing, user tracking, and real-time updates.

2. Church Members Tracking App

- Designed and built a lightweight web app to manage church member data.
- Included features for attendance, family records, events, and volunteer assignments using Qr code with a physical machine(Scanner).
- Focused on usability for non-technical users, using **Next.js and Zustand**.

3. E-learning Web Application

- Built a responsive UI for course browsing, enrollment, and progress tracking.
- Implemented quiz modules, videos, payment and a student dashboard.

- Integrated a content management system for teachers to upload materials easily, testing using Jest.

4. **Personal Component Library**

- Created and documented a set of custom UI components reusable across projects.
- Ensured accessibility and mobile responsiveness.

Web Developer Intern

Dec 2024 - Apr 2025

Marvels Creative Technology

Bolle, Addis Ababa

- Enhanced Job Portal features using Next.js/TailwindCSS (15% engagement increase)

Machine Learning Engineer Intern

Mar 2025 - May 2025

iCog-Labs

Wollo Sefer, Addis Ababa

- Improved fraud detection model accuracy by 10% (TensorFlow)
- Built Python/Spark pipeline (50% faster processing)
- Handling large datasets using SQL and Pandas, enabling smoother ML workflows.
- Deployed a predictive model using scikit-learn, to improve customer retention

Tech Support

Jul 2024 - Dec 2024

GAOTEK Inc. (Remote)

- Developed WordPress content for company products

EDUCATION

B.Sc in Computer Science

Oct 2022 - Dec 2026

Addis Ababa University|